



U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PTO/SB/08A (08-03)

Approved for use through 07/31/2006, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to or

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Shee

1

7

Complete if Known

| | |
|----------------------|----------------------|
| Application Number | 09/650,853 |
| Filing Date | 08/29/2000 |
| First Named Inventor | Mandeep Singh Chadha |
| Art Unit | 2643 |
| Examiner Name | Rexford N. Barnie |

Shee

1

2

Attorney Docket Number

M. CHABIA S-3-1

U. S. PATENT DOCUMENTS

| U. S. PATENT DOCUMENTS | | | | | |
|------------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| R.B. | | US- 6,434,233 | 08/15/2002 | Bjarnason, et al. | |
| | | US- 5,809,033 | 09/15/1998 | Turner, et al. | |
| | | US- 5,604,769 | 02/18/1997 | Wang | |
| | | US- 5,512,898 | 04/30/1996 | Norsworthy | JUN 09 2004 |
| | | US- 6,208,671 | 03/27/2001 | Paulos, et al. | |
| | | US- 6,628,738 | 09/30/2003 | Peeters, et al. | Technology Center 2600 |
| | | US- 6,389,064 | 05/14/2002 | Dholakia, et al. | |
| | | US- 5,748,126 | 05/05/1998 | Ma, et al. | |
| | | US- 5,351,087 | 09/27/1994 | Christopher, et al. | |
| | | US- 6,240,128 B1 | 05/29/2001 | Banerjea, et al. | |
| | | US- 5,418,849 | 05/23/1995 | Cannalire, et al. | |
| | | US- 5,353,279 | 10/04/1994 | Koyama | |
| | | US- 4,924,492 | 05/08/1990 | Gitlin, et al. | |
| | | US- 5,841,809 | 11/24/1998 | Koizumi, et al. | |
| | | US- 5,396,517 | 03/07/1995 | Yedid, et al. | |
| | | US- 4,707,824 | 11/17/1987 | Kanemasa | |
| R.B. | | US- 5,732,107 | 03/24/1998 | Phillips, et al. | |
| | | US- | | | |
| | | US- | | | |

RECEIVED

~~Technology Center 2600~~

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**

Rutherford Barnes

Date Considered

10/14/04

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). ³See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

BEST AVAILABLE COPY

U.S. PATENT AND TRADEMARK OFFICE
JUN 07 2004
JCS

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449 PTO TRADEMARK OFFICE

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

| | | | | | | |
|-------|---|----|---|------------------------|-----------------|------------------------|
| Sheet | 2 | of | 2 | Attorney Docket Number | M. CHADHA 3-3-1 | Technology Center 2600 |
|-------|---|----|---|------------------------|-----------------|------------------------|

RECEIVED

JUN 09 2004

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|-----------------------|---|----------------|
| R.B. | | Floyd M. Gardner "Interpolation in Digital Modems - Part I: Fundamentals" IEEE Transactions on Communications, Vol. 41, No. 3, March 1993; pp. 501-507 | |
| | | Lars Erup, et al. "Interpolation in Digital Modems - Part II: Implementation and Performance" IEEE Transactions on Communications, Vol. 41, No. 6, June 1993; pp. 998-1008 | |
| | | James. D. Barnette, et al.; U.S. Patent Application Serial No. 09/652,116, filed 08/29/2000 entitled "Resampler for a bit Pump and Method of Resampling a Signal Associated Therewith"; pp. 1-59; 6 drawing sheets | |
| | | Mandeep Singh Chadha, et al.; U.S. Patent Application Serial No. 09/650,854, filed 08/29/2000 entitled "Separation Circuit for an Echo Canceling System and Method of Operating the Same"; pp. 1-67; 6 drawing sheets | |
| | | James D. Barnette; U.S. Patent Application Serial No. 09/650,850, filed 08/29/2000 entitled "An Interpolator, A Resampler Employing the Interpolator and Method of Interpolating a Signal Associated Therewith"; pp.1-78; 5 drawing Sheets | |
| R.B. | | Mandeep Singh Chadha, et al.; U.S. Patent Application Serial No. 09/650,851, filed 08/29/2000 entitled "Filter Circuit for a Bit Pump and Method of Configuring the Same" pp. 1-57; 7 drawing sheets | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|--------------------|-------------------|-----------------|----------|
| Examiner Signature | Rexford N. Barnie | Date Considered | 10/14/04 |
|--------------------|-------------------|-----------------|----------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

BEST AVAILABLE COPY